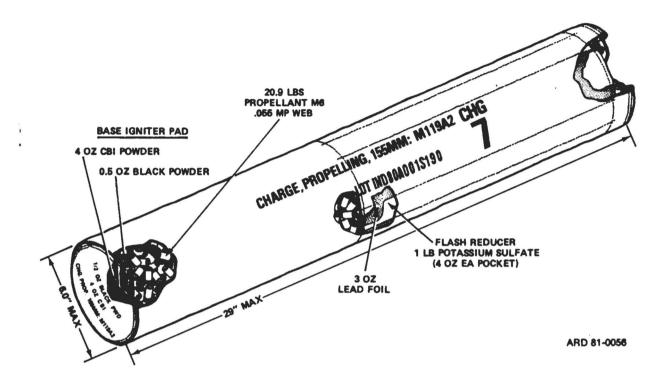
CHARGE, PROPELLING 155MM: M119A2



#### Type Classification:

M119A2 STD. MSR 09806009

#### Use:

This propelling charge is a zone 7 red bag charge for firing in 155mm Howitzers containing M185 and M199 cannon tubes.

### Description:

The M119A2 Propelling Charge is a single increment red bag charge which contains a base igniter pad with 4 oz CBI powder and a center spot of 0.5 oz of black powder. The charge is approximately 29 in. long by 6 in. in diameter and contains 20.9 lbs of M6 propellant. The

forward end of the charge has a 3 oz lead foil liner and four pockets sewn longitudinally to the circumference. Each of the four pockets contains 4 oz of potassium sulfate to act as a flash reducer.

### Functioning:

Upon firing the weapon, a flash from the primer ignites the CBI powder in the base igniter pad which ignites the black powder spot. The burning of the CBI and black powder spot in turn ignites the propellant. The burning propellant generates rapidly expanding gases which propel the projectile through the barrel and up to the velocity required to reach the target. The flash reducer functions to reduce blast overpressure and flash at the muzzle of the weapon. The lead

Change 12 8-10.1

foil liner serves to prevent copper build-up (coppering) in the weapon.

#### Differences between Models:

The M119A2 is base ignited and does not contain a center igniter core and tube as in the case of the M119 (M119A1). Although this charge is a zone 7 it can be used interchangeably with the M119, M119A1 zone 8 charges and like these charges the M119A2 is to be used in the M185 and M199 gun tubes only. The M119A2 does not have the outer lacing jacket that is used to wrap the M119 and M119A1 propelling charge.

# Tabulated Data:

Type	Red bag, sep-
	arate loading
Weight	
Length	29 in
Color	Red w/black
	markings
Cannon used with	M185 (M109A1/A2/
	A3) M199 (M198).
Propellant	M6, 20.9 lb
Primer	
Flash reducer	Potassium Sulfate.
	1 1b
Igniter	CBI 4 oz. black

powder 0.5 oz

#### Temperature Limits:

Firing:		
Lower	limit	 -40°F (-40°C) +125°F (+52°C)
Upper	limit	 +125°F (+52°C)
Storage:		
Lower	limit	 -65°F (-53.8°C)
		(for periods not
		more than 3 days)
		0

Upper limit ----- +160°F (+71.1°C)
(for periods
not more than
4 hr/day)

*Packing	 1	
		charge in
		metal con-
		tainer DA3741

*Propelling charge container:	
Weight	44 1he
Dimensions	32 3/4 in long
	x 8 13/32
	in. dia
Cube	1.3 cu ft

#### \*NOTE:

# Shipping and Storage Data:

Storage class/SCG DOT shipping class	В
DOT designation	PROPELLANT
	EXPLOSIVES SOLID-CLASS B
DODAC	
Assembly Dwg. No	9333954
Container Dwg. No	9333957

# Preparation For Firing:

Igniter protector cap held in place by tie strap must be removed before firing. Tie strap is marked "Remove Before Firing".

# Limitations:

N/A

# Reference:

TM 9-1300-251-20 TM 9-1300-251-34 TM 9-2350-217-10N TM 9-1025-211-10 TM 9-2350-303-10